

FIG. 1

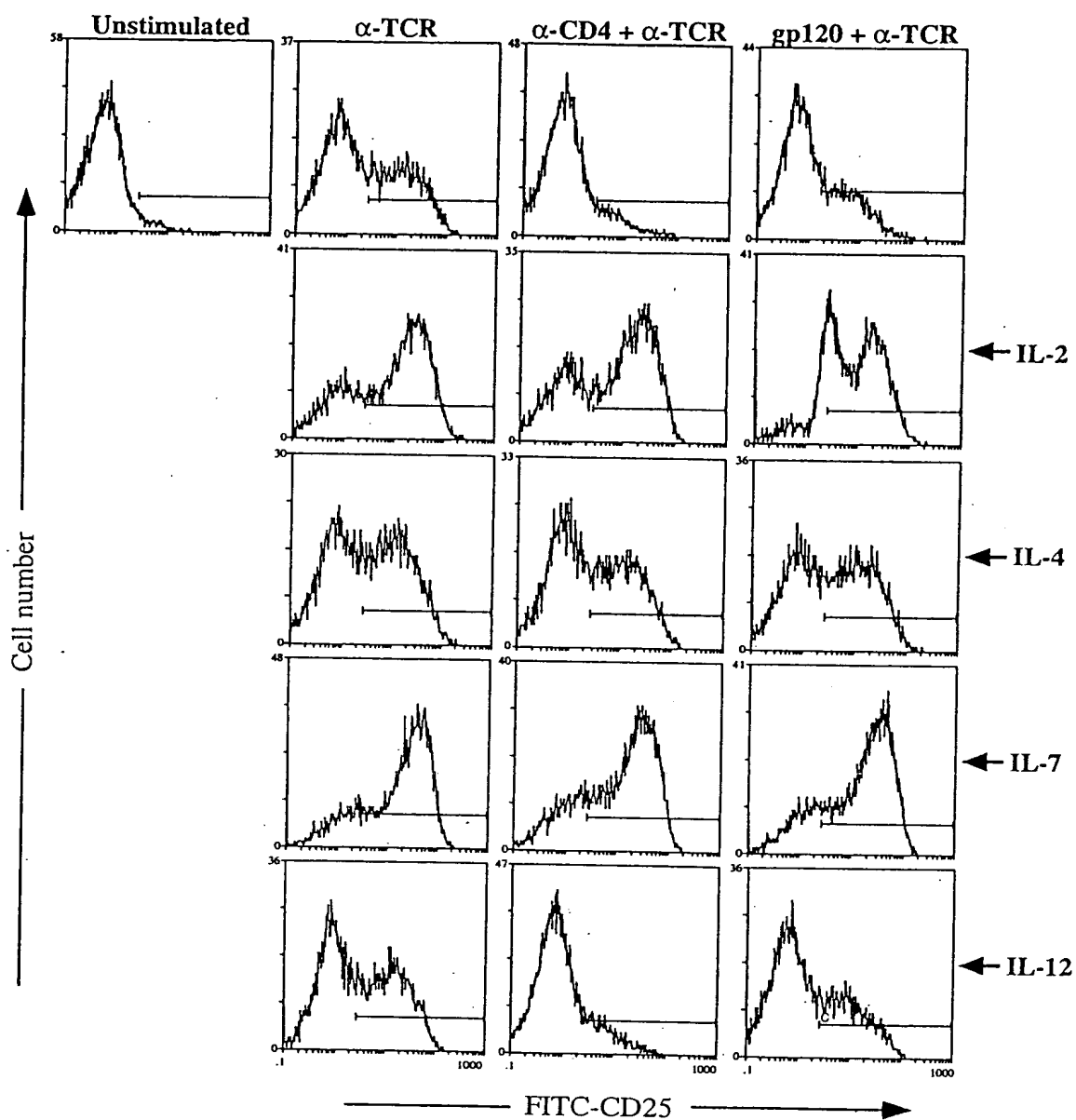


FIG. 2A

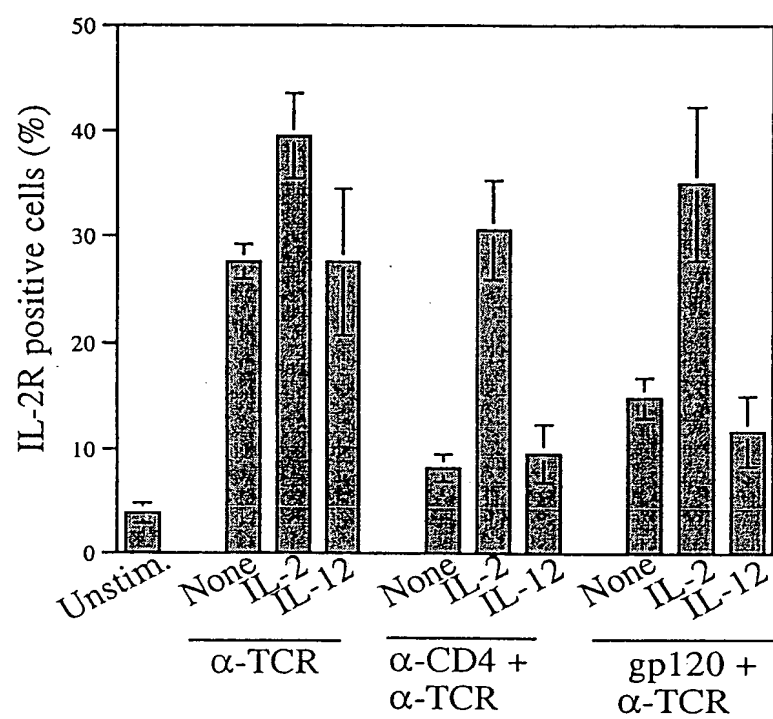


FIG. 2B

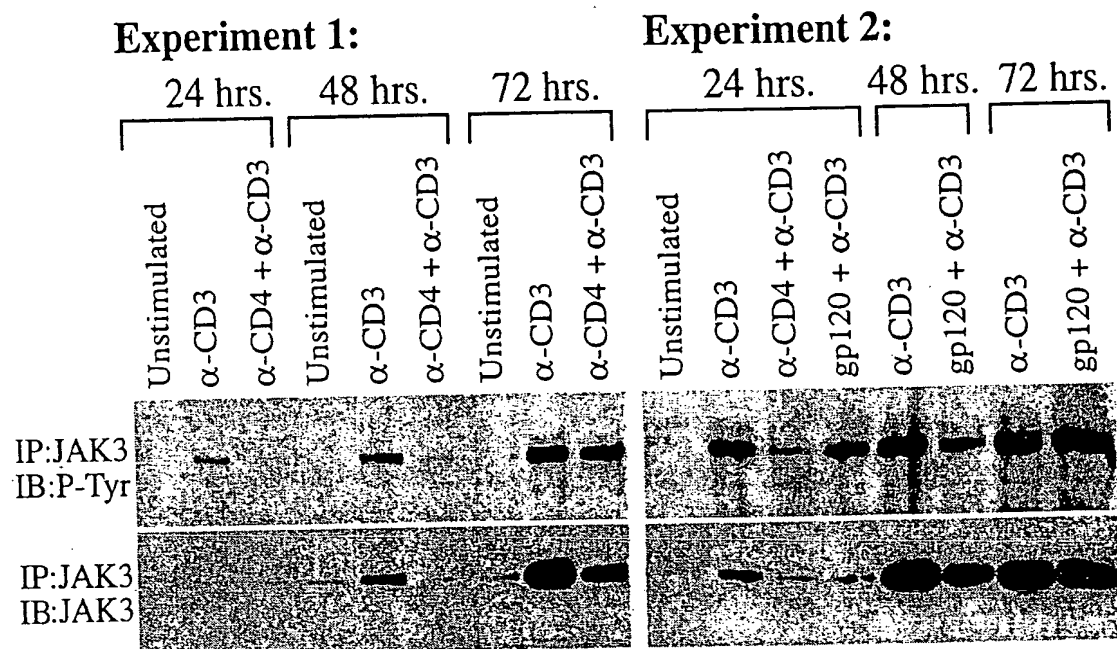


FIG. 3 A

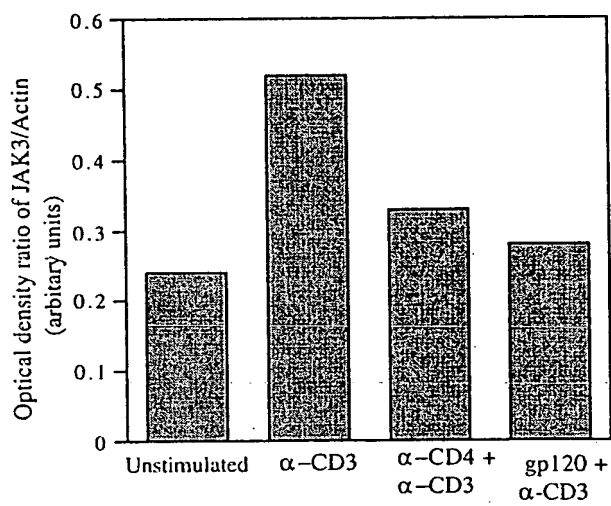


FIG. 3 B

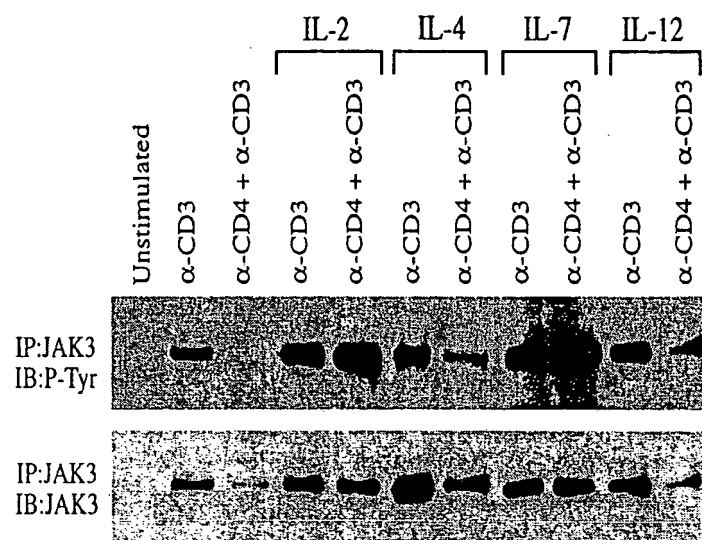


FIG. 4

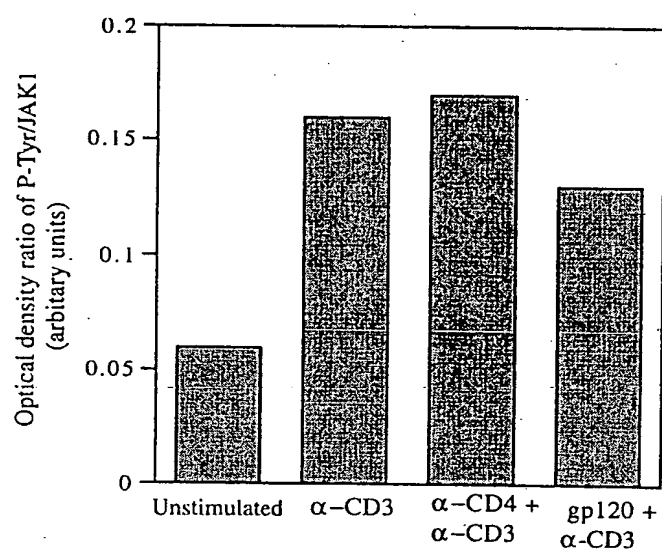


FIG. 5A

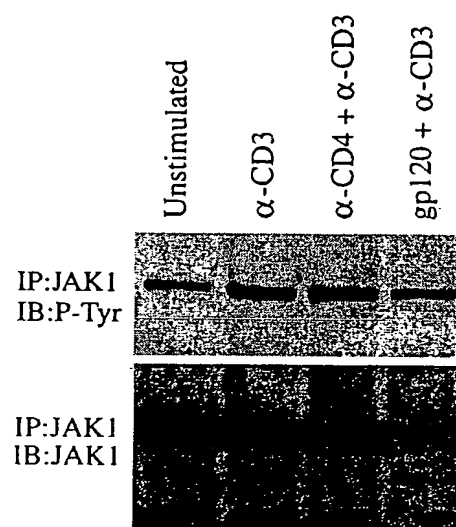


FIG. 5B

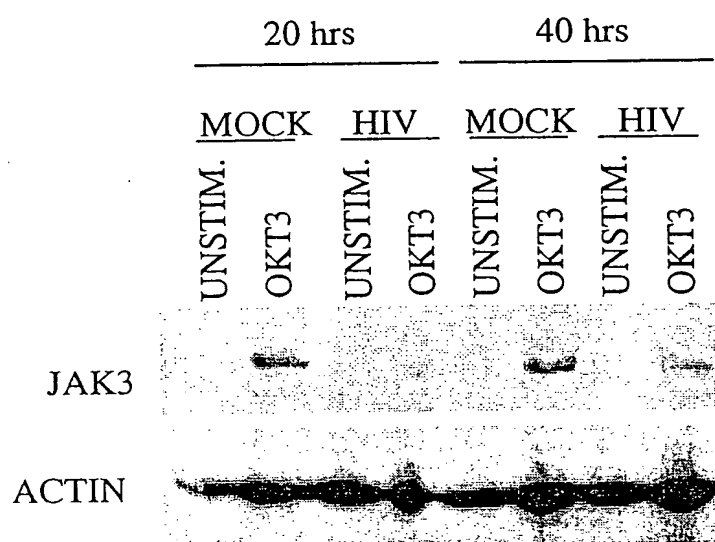


FIG. 6A

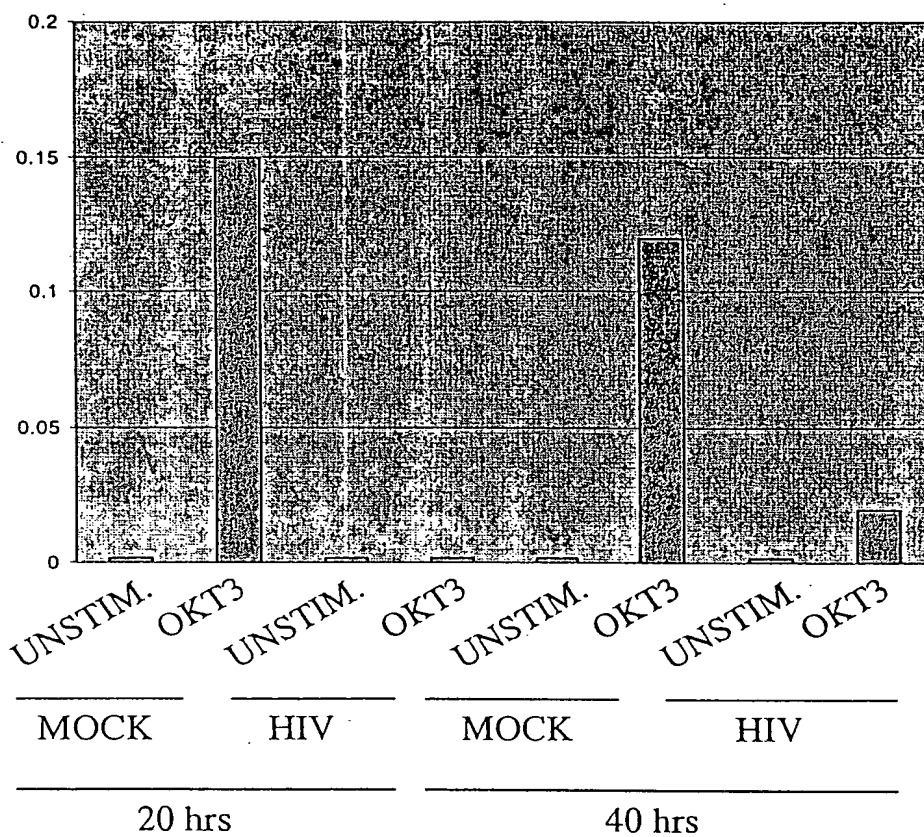


FIG. 6B

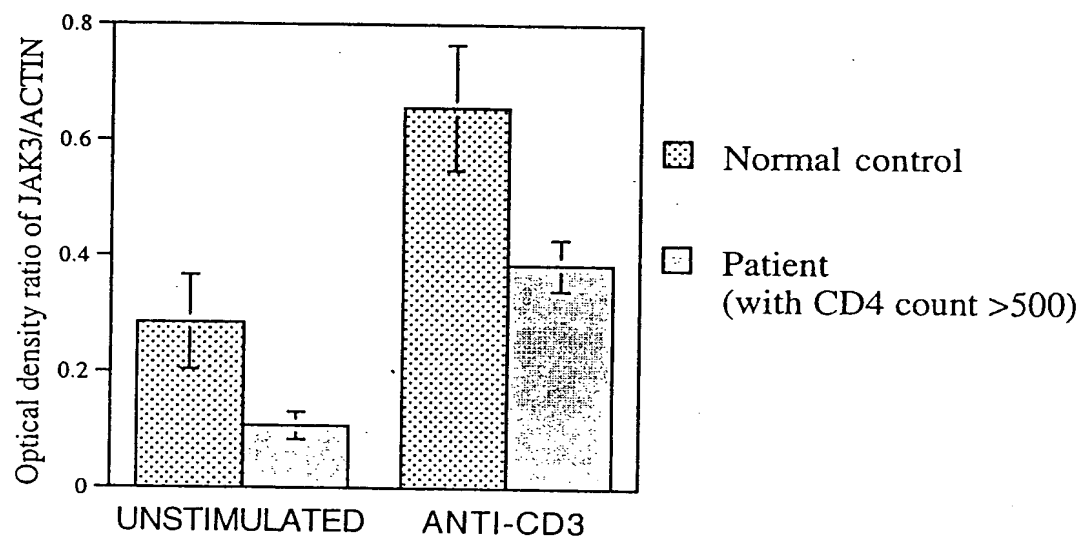


FIG. 7

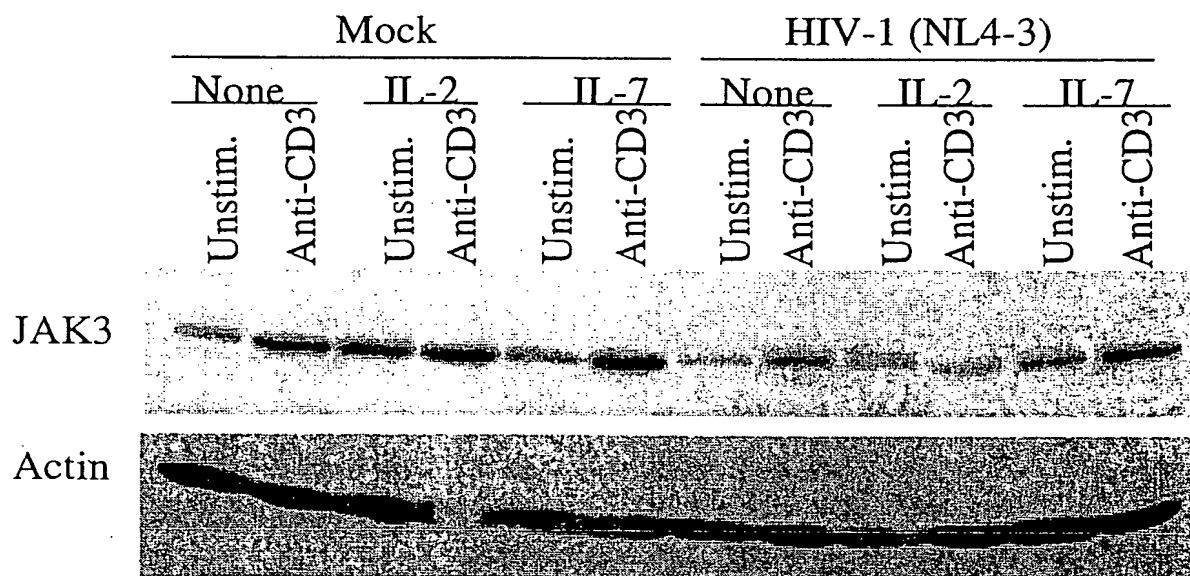


FIG. 8A

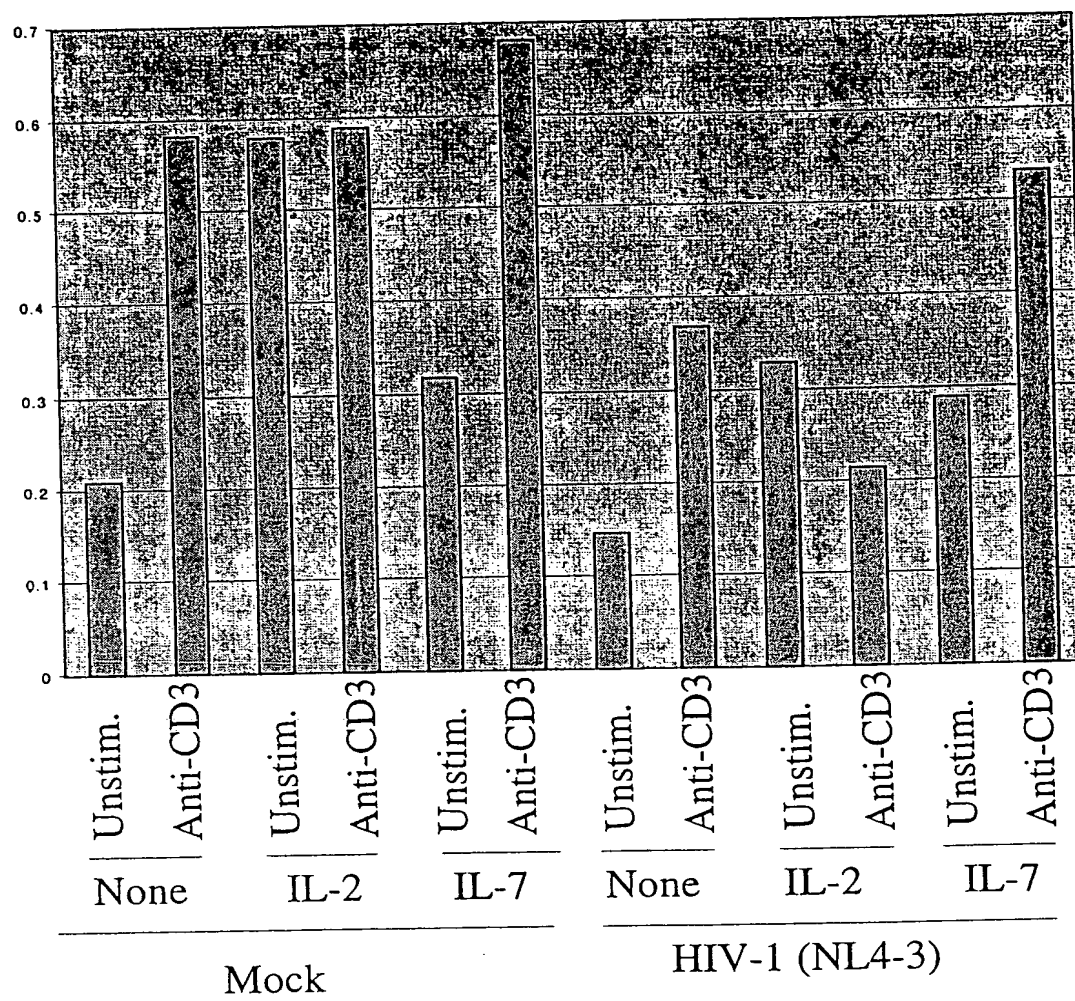


FIG. 8B

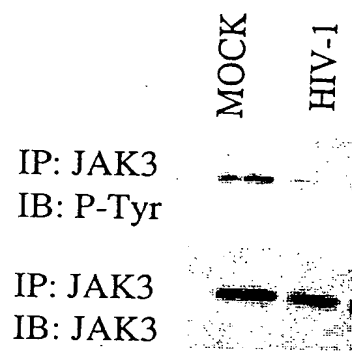


FIG. 9A

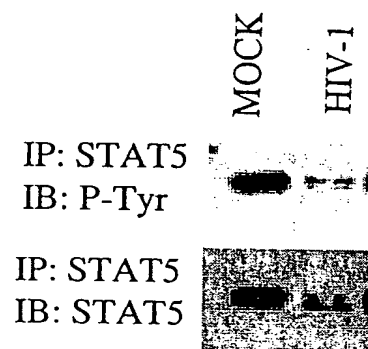


FIG. 9B

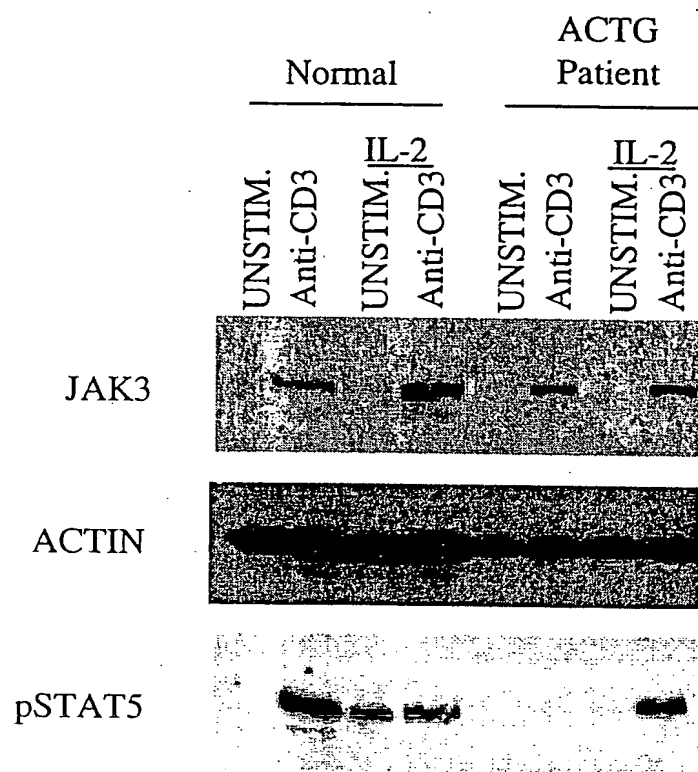


FIG. 10

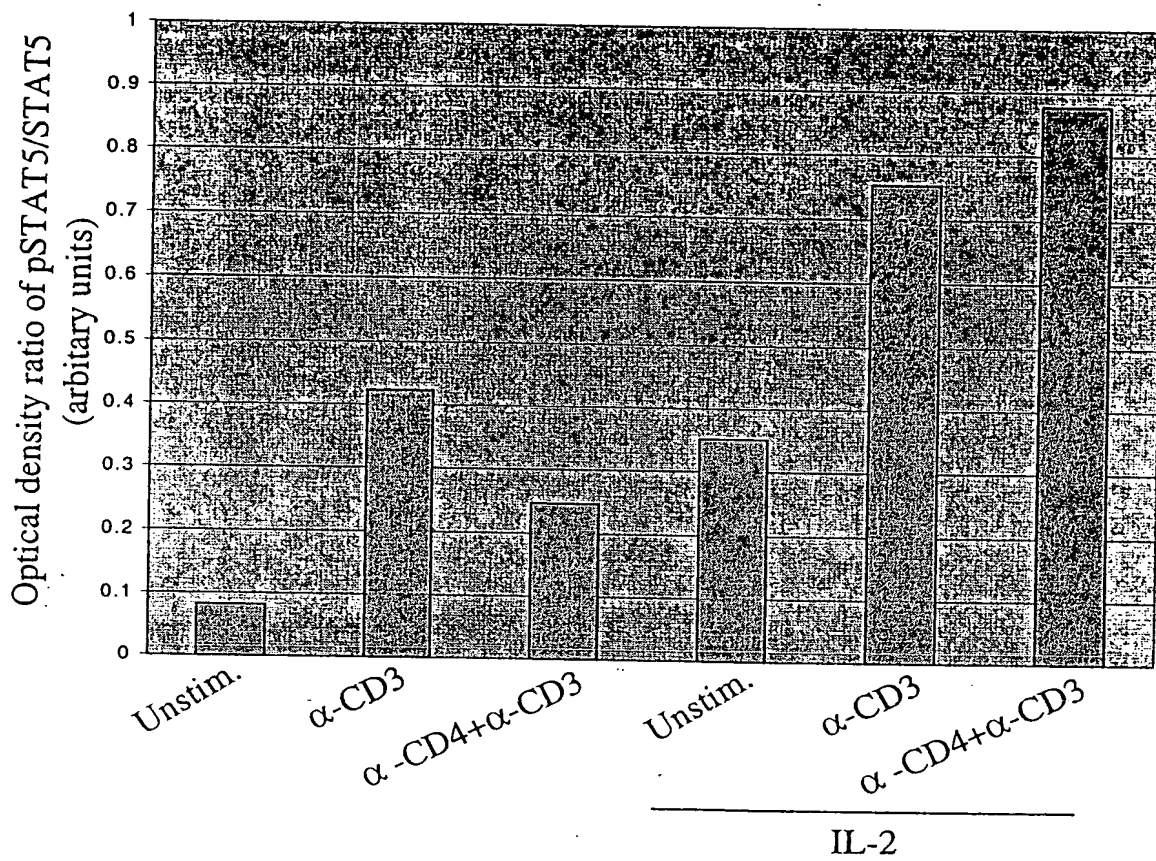


FIG. 11A

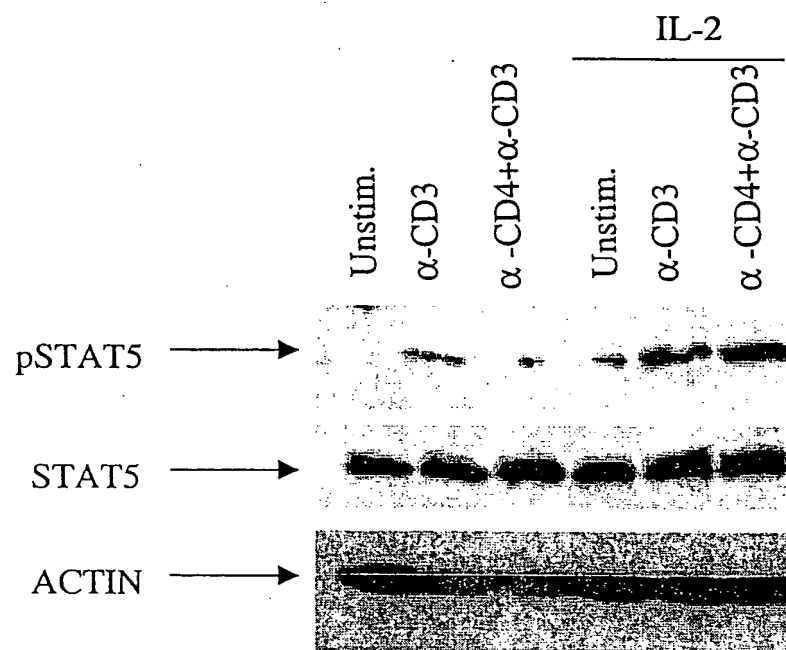


FIG. 11B

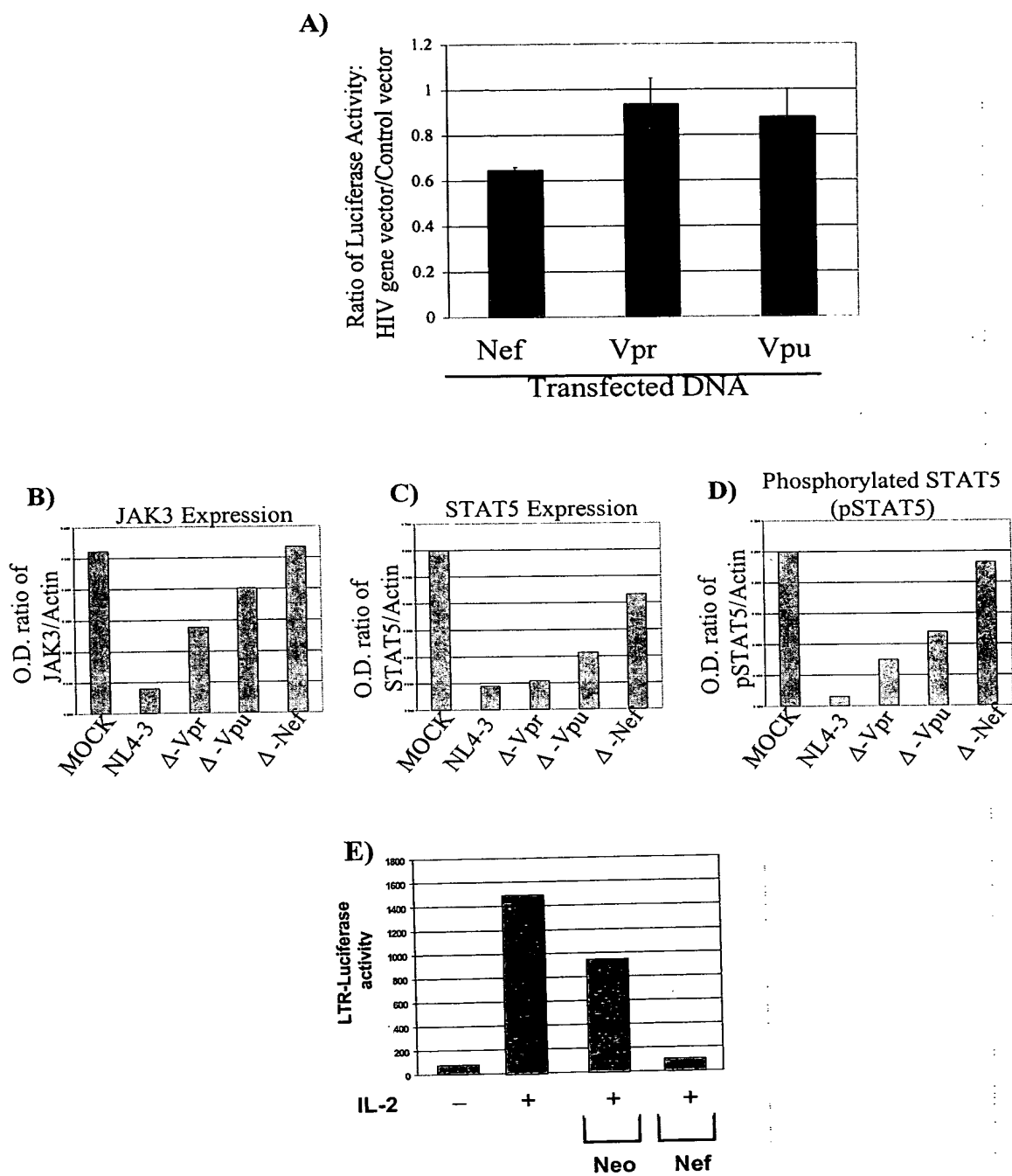


Figure 12

CCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTTAAAAG
AAAGGGGGGACTGGAAGGGCTAATTCCTCCCAAAGAAGACAAGATATCCTTG

(S1)

ATCTGTGGATCTACCACACACAAGGCTACTTCCCTGATTAGCAGAACTACA
CACCAGGGCCAGGGGTCAGATATCCACTGACCTTTGGATGGTGCTACAAGCTAG
TACCAGTTGAGCCAGATAAGATAGAAGAGGGCCAATAAAGGAGAGAACACCAGC
TTGTTACACCCTGTGAGCCTGCATGGGATGGATGACCCGGAGAGAGAAGTGTTA
GAGTGGAGGTTTGACAGCCGCCTAGCATTTTCATCACGTGGCCCGAGAGCTGCAT

(S2)

CCGGAGTACTTCAAGAACTGCTGACATCGAGCTTGCTACAAGGGACTTTCC

(S3)

GCTGGGGACTTCCAGGGAGGGCGTGGCCTGGGCGGGACTGGGGAGTGGCG
AGCCCTCAGATCCTGCATATAAGCAGCTGCCTTTTGCCTGTACTGGGTCTCTCTG
GTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCT
TAAGCCTCAATAAAGCTTGCCTTGAGTGCTTC

Figure 13

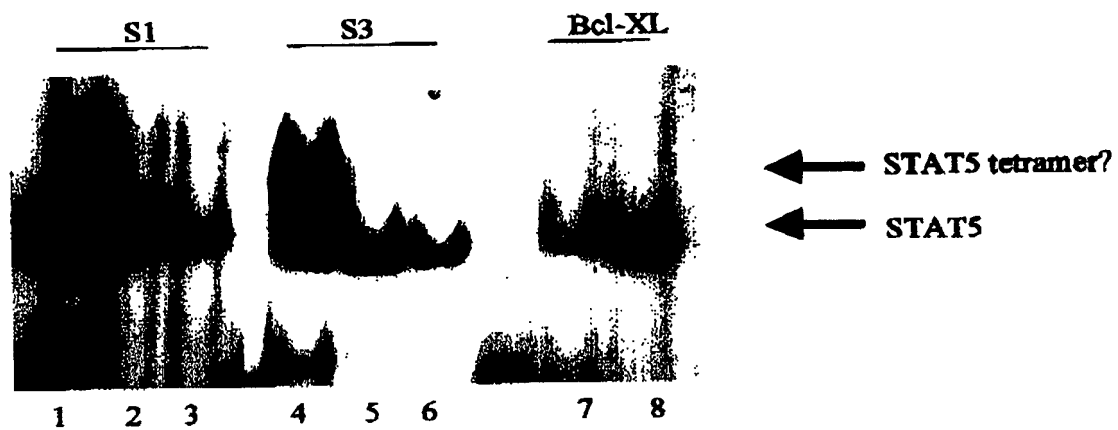


Figure 14

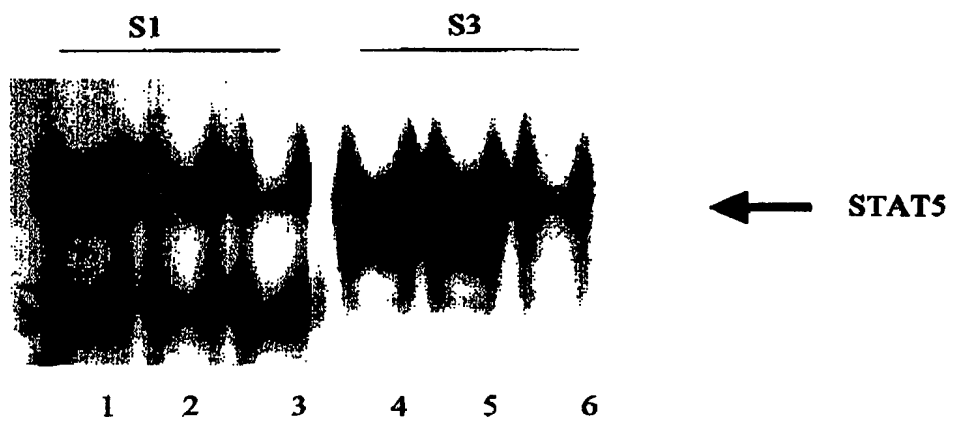


Figure 15

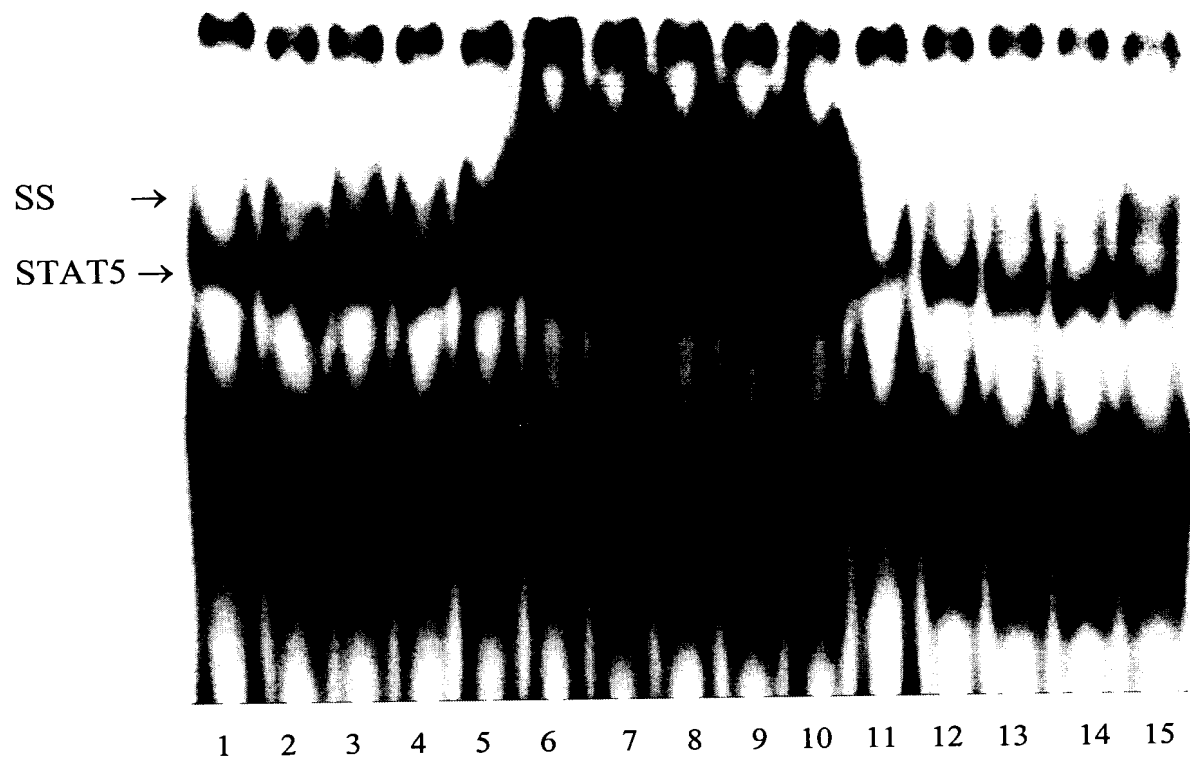


FIG. 16

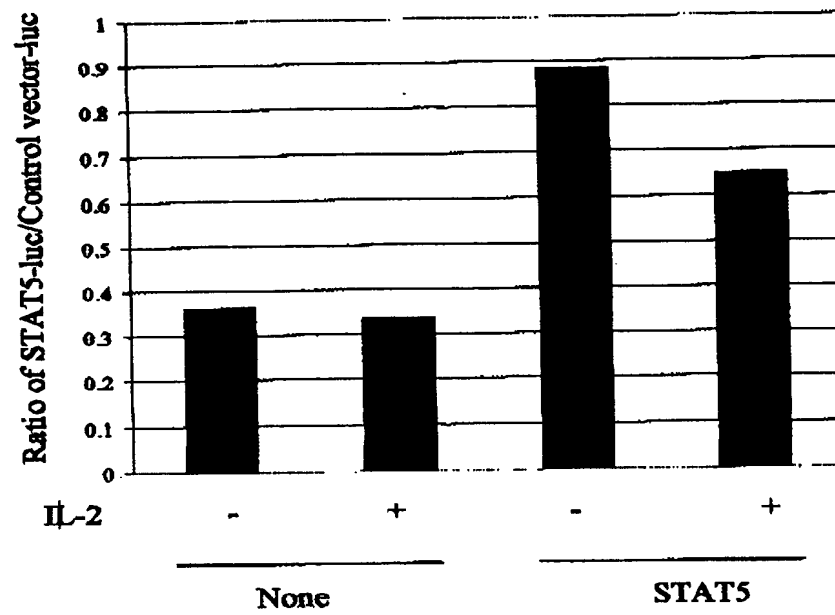


Figure 17

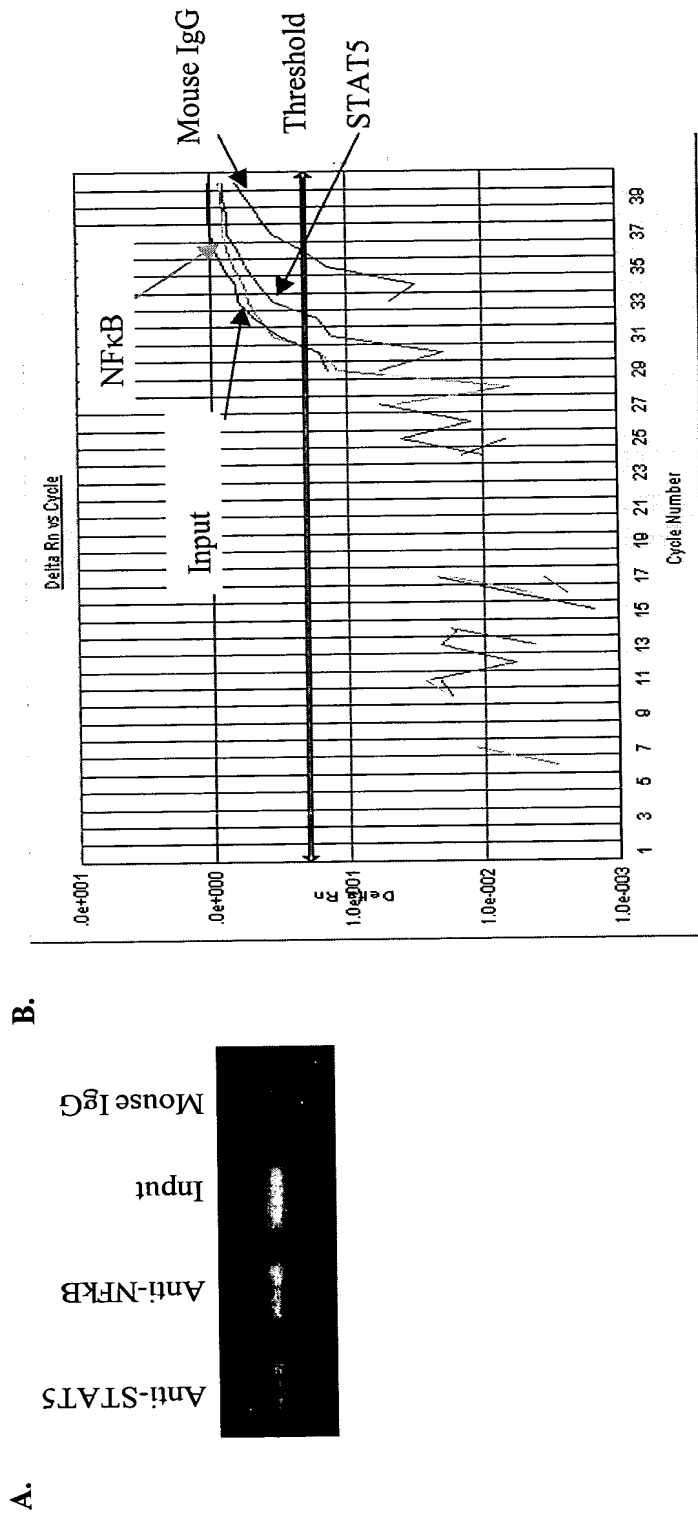


Figure 18

A) Human T-lymphotropic virus 1 isolate ES02-JCP long terminal repeat, 5' partial sequence.

```
cagggccag actagggctc tgacgtctcc ccccgaggag acagctcagc accggctcag 61
gctagggcct gacgtgtccc cctgaagaca aatcataagc tcagacctcc gggaagccac 121
cggaaccacc catttctctc ccatgtttgt caagccgccc tcaggcggtg acgacaaccc 181
ctcacctcaa aaaactt TTCATGGCA cgca tatggctgaa taaactaaca ggagtctata 241
aaagcgtgga gacag TTCAG GAG ggggctc gcattctctc ttcacgcgcc cgccgcccta 301
cctgaggccg ccatccacgc cggttgagtc gcgttctgcc gcctcccgcc tgtggtgect 361
cctgaactgc gtccgccgtc taggtaagtt cagagctcag gtcgagaccg ggcctttgtc 421
cggcgctccc ttggagcctg cctagactca gccggctctc cacgctttgc ctgacctgc 481
ttgctcaact ctgcgtcttt gtttcgtttt ctg TTCTGCGCC g ctacaga tcgaaagtcc 541
caccctttc cctttcattc acg
```

B) FIV genome
5' LTR = 1..355

```
1 tgggatgagt attggaaccc tgaagaaata gaaagaatgc ttatggacta gggactgttt 61
acgaacaaat gataaaagga aatagctgag catgactcat agttaagcg ctacgagctg 121
cctaaccgca aaaccacatc ctatggaaaag cttgctaattg acgtataagt tgttccattg 181
taagagtata taaccagtgc tttgtgaaac TTTCGAGGAG t ctctttgttg aggacttttg 241
agttctccct tgaggtcccc acagatacaa taaatatttg agattgaacc ctgtcgagta 301
tctgtgtaat cttttttacc tgtgaggtct cggaatcccg gccgagaact tcgcagttgg
```

C) SIV genome
5' LTR = 1..688

```
tggatgggat atattactct gaaagaagag aaaagatcct gaatttgtat gccttgaacg 61
agtggggaat aatagatgat tggcaagctt actcaccagg cccggggata aggtaccga 121
gagtcttttg cttctgcttt aagctagtcc cagtggacct gcatgaggag gcacgcaact 181
gtgagagaca ctgtctgatg catccagcac agatggggga agatcctgat ggaatagatc 241
atggagaagt cttggtctgg aagtttgacc cgaagttggc ggtggagtac cgcccgaca 301
tgtttaagga catgcacgaa catgcaaagc gctagtgtca gcactttgcg gttgggactt 361
tccgccaggg actttccaca gtgggtggat cggaggcggt acaggggcgg tactgggagt 421
ggctttcccc tcagagctgc ataaaagcag atgctcgctg gcttgtaact cagtctctta 481
ctaggagacc agctagagcc tgggtg TTGCTGGT tagcc taaccgggtt ggccaccggg 541
ggtaaggact ccttggtctc ataatagctc ataaacctgc tcgcttagtc gctatattgg 601
agtcaagtgc tcattgctgc gccgagcctc tagaggtgaa cctctcttac tgggttctcc 661
tgtaccagag tgggagaaac tccagcagtg
```

Figure 19

A) STAT 5A

MAGWIAQQQLQGDALRQMQVLYGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRAQA
TQLEGLVQELQKKAHQVGEDGFLKIKLGHYATQLQKTYDRCPLELVRCIRHILY
NEQRLVREANNCS SPAGILVDAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEY
FIIQYQESLRIQAQFAQLAQLSPQERLSRETALQQKQVSLEAWLQREAQTLQQYRVE
LAEKHQKTLQLLRKQQTII LDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLA EI
IWQNRQQIRRAEHL CQQLP I PGPVEEMLAEVNATITDII SALVTSTFII EKQPPQVL
KTQTKFAATVRL LVGGKLVHNMNPPQVKATII SEQQAKSLLKNENTRNECSGEILNN
CCVMEYHQATGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELV
FQVKTL SLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNM
KFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNRENLPGWNYTF
WQWFDGVM EVLKKHKKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGI
TIAWKFDSPERNLWNLKPFTTRDFSIRSLADRLGDL SYLIYVFPDRPKDEVFSKYTT
PVLAKAVDGYVKPQIKQVVPEFVNASADAGGSSATYMDQAPSPAVCPQAPYNMYPQN
PDHVLDDQDGEFDLDETMDVARHVEELLRRPMDSLDSRLSPAGLFTSARGSL S

B) STAT 5B

MAVWIAQQQLQGEALHQMQUALYGQHFPIEVRHYLSQWIESQAWDSVDLDNPQENIKA
TQLEGLVQELQKKAHQVGEDGFLKIKLGHYATQLQNTYDRCPMELVRCIRHILY
NEQRLVREANNNGSSPAGSLADAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEY
FIIQYQESLRIQAQFGPLAQLSPQERLSRETALQQKQVSLEAWLQREAQTLQQYRVE
LAEKHQKTLQLLRKQQTII LDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLA EI
IWQNRQQIRRAEHL CQQLP I PGPVEEMLAEVNATITDII SALVTSTFII EKQPPQVL
KTQTKFAATVRL LVGGKLVHNMNPPQVKATII SEQQAKSLLKNENTRNDYSGEILNN
CCVMEYHQATGTLSAHFRNMSLKRIKRSDRRGAESVTEEKFTILFESQFSVGGNELV
FQVKTL SLPVVVIVHGSQDNNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNM
KFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNRENLPGRNYTF
WQWFDGVM EVLKKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGI
TIAWKFD SQERMFWNLMPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVYSKYTT
PVPCE SATAKAVDGYVKPQIKQVVPEFVNASADAGGGSATYMDQAPSPAVCPQAHYN
MYPQNPDSVLD TDGDFDLEDTMDVARRVEELLGRPMDSQWIPHAQS

Figure 20